

Release notes for ENDF/B Development n-048_Cd_110
evaluation

ENDF
B-VII.dev

April 26, 2017

- groupie Errors:

1. Very small elastic cross section found
0: Small elastic

Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)

ENDF/B Input and Output Data Filenames

ENDFB.IN

ENDFB.OUT

... [97 more lines]

- fudge-4.0 Warnings:

1. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.13%

- fudge-4.0 Errors:

1. Calculated and tabulated Q values disagree.
reaction label 16: n[multiplicity:'2'] + Cd109 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9805516.11819458 eV vs -9880304. eV!

2. Calculated and tabulated Q values disagree.
reaction label 17: n[multiplicity:'3'] + Cd108 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -17132933.08680725 eV vs -1.7243e7 eV!

3. Calculated and tabulated Q values disagree.
reaction label 18: n + H1 + Ag109 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -8808924.917129517 eV vs -8916904. eV!

4. Calculated and tabulated Q values disagree.
reaction label 19: n + H2 + Ag108 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -15776509.49861145 eV vs -1.5886e7 eV!

5. Calculated and tabulated Q values disagree.
reaction label 20: n + H3 + Ag107 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -16790686.51551819 eV vs -1.6896e7 eV!

6. Calculated and tabulated Q values disagree.
reaction label 21: Cd111 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 7086213.212387085 eV vs 6976804. eV!

7. Calculated and tabulated Q values disagree.
reaction label 22: n + He4 + Pd106 (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -2765060.934417725 eV vs -2861002. eV!

8. Calculated and tabulated Q values disagree.
reaction label 23: H1 + Ag110_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -1999725.100204468 eV vs -2.1108e6 eV!

9. Calculated and tabulated Q values disagree.
reaction label 24: H2 + Ag109_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -6584358.816192627 eV vs -6692204. eV!

10. Calculated and tabulated Q values disagree.
reaction label 25: H3 + Ag108_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -9519276.557998657 eV vs -9.88e6 eV!

11. Calculated and tabulated Q values disagree.
reaction label 26: He3 + Pd108_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -7578216.65977478 eV vs -7687104. eV!

12. Calculated and tabulated Q values disagree.
reaction label 27: He4 + Pd107_s (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: 3771372.275222778 eV vs 3701002. eV!

- njoy2012 Warnings:

1. Message comes from several resonance types that do not support the calculation of angular distributions. Some of them can be used if `Want_SAMRL_RM` or `Want_SAMRML_BW` are true.
reconr...reconstruct pointwise cross sections in pendf format (0): RECONR/calculation of angular distribution not installed (0)

---message from rdf2bw---calculation of angular distribution not installed.
samm max legendre order: 0

2. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (0): GROUPE/conver (0)

---message from conver---cannot do complete particle production for mt= 16
only mf4/mf5 provided

3. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (1): GROUPE/conver (0)

---message from conver---cannot do complete particle production for mt= 17
only mf4/mf5 provided

4. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (2): GROUPR/conver
(0)

---message from conver---cannot do complete particle production for mt= 22
only mf4/mf5 provided
5. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (3): GROUPR/conver
(0)

---message from conver---cannot do complete particle production for mt= 28
only mf4/mf5 provided
6. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (4): GROUPR/conver
(0)

---message from conver---cannot do complete particle production for mt= 32
only mf4/mf5 provided
7. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (5): GROUPR/conver
(0)

---message from conver---cannot do complete particle production for mt= 33
only mf4/mf5 provided
8. With the advent of the ENDF-6 format, it is possible to make evaluations that fully describe all the products of a nuclear reaction. Some carry-over evaluations from earlier ENDF/B versions also have this capability, but many do not. This message is intended to goad evaluators to improve things!
grouppr...compute self-shielded group-averaged cross-sections (6): GROUPR/conver
(0)

---message from conver---cannot do complete particle production for mt= 91
only mf4/mf5 provided